# Algorithm Description – Vote Count

In plain English, point-form, think through the steps necessary to solve the given problem.

Make use of key words like *compare*, *iterate*, *store*.

In code, of course, these translate to conditional statements, loops, and using variables.

## Algorithm

* Gather Input
  + Show Prompt
  + Check to see if input is valid, make sure it is not nil
  + If it passes test, store in a variable
  + If it does not pass the test, repeat the prompt
  + Change that from a string to an integer
  + Get A’s and B’s
  + Store all into a string, then separate into an array, each part of array is one A/B
  + Count array, make sure that the first input and the amount of A’s and B’s are the same
  + If the inputs are not the same
* Run Algorithm
  + Iterate through the array of A’s and B’s
  + If the current letter in the array is an A, add a point to a variable containing the amount of A’s in the array
  + If the current letter in the array is an A, add a point to a variable containing the amount of B’s in the array
  + Compare the two variables, if one is bigger, output that that letter is bigger, and vice versa
  + If there are the same amount of A’s and B’s, output “Tie”